

Title (en)

CHARGING METHOD, CHARGING DEVICE AND CHARGING SYSTEM FOR POWER BATTERY

Title (de)

LADEVERFAHREN, LADEVORRICHTUNG UND LADESYSYSTEM FÜR EINE LEISTUNGSBATTERIE

Title (fr)

PROCÉDÉ DE CHARGE, DISPOSITIF DE CHARGE ET SYSTÈME DE CHARGE POUR BATTERIE D'ALIMENTATION

Publication

**EP 4239828 A4 20240626 (EN)**

Application

**EP 21957165 A 20210918**

Priority

CN 2021119362 W 20210918

Abstract (en)

[origin: EP4239828A1] A charging method and a charging device (100) for a power battery, which can improve the charging efficiency. The charging method is applied to a charging device. The charging device comprises N energy storage units (110, 120) connected in parallel. Each energy storage unit comprises an energy storage battery (111, 121) and a first DC/DC converter (112, 122) connected to same. Each charge cycle of the charging device comprises a stage in which a power battery (210) is charged, and a stage in which the power battery discharges the N energy storage units. The charging method comprises: obtaining a first parameter in each energy storage unit in a discharging stage; determining, according to the first parameter, a first current output by the first DC/DC converter in each energy storage unit, the first current being inversely proportional to the first parameter in the energy storage unit; and sending the first current to the first DC/DC converter, so that the energy storage battery receives, according to the first current, the electric quantity released by the power battery by means of the first DC/DC converter.

IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

- [IA] WO 2021122459 A1 20210624 - JOLT ENERGY GMBH [DE]
- [I] US 2018093583 A1 20180405 - KIM YOUNGJAE [KR], et al
- See also references of WO 2023039888A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

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DOCDB simple family (application)

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